

ABSTRACT

[0070] This invention relates to an alternating current electric motor, single phase or multiphase or synchronous generator, with primary windings (main windings) and de-saturation additional windings. Each additional winding is fed through one or more multiple capacitors in opposite phase angle and opposite field directions from each respective main windings. The total cross sections of the wire used on each main and additional winding are of predetermined sizes and preferably follows the approximate ratio of approximately $2/3$ for the main winding and approximately $1/3$ for the additional winding, and this capacitor value is of a predetermined size. The method of construction is characterized by the two windings being built at one time in a single operation as a single step.